



JPW

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q77506

Satoshi ARAKAWA

Appln. No. 10/662,328

Group Art Unit: 2878

Confirmation No. 9177

Examiner: Constantine Hannaher

Filed: September 16, 2003

For: RADIATION IMAGE SENSOR AND METHOD OF PRODUCING THE SAME

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier). Because the references were previously submitted and made of record concurrently with the application, no fee is believed to be

INFORMATION DISCLOSURE STATEMENT
U.S. Appln. No. 10/662,328

Attorney Docket No. Q77506

required. If, however, a fee is due, the fee of \$180.00 under 37 C.F.R. § 1.17 should be charged to deposit account no. 19-4880

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.


Respectfully submitted,

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WASHINGTON OFFICE

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Substitute for Form 1449 A & B/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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of

1

Application Number	10/662,328
Confirmation Number	9177
Filing Date	September 16, 2003
First Named Inventor	Satoshi ARAKAWA
Art Unit	2878
Examiner Name	Constantine Hannaher
Attorney Docket Number	Q77506

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			
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		US			
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		US			
		US			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		"Comparative Study of PbI ₂ and HgI ₂ as Direct Detector Materials for High Resolution X-ray Image Sensors"; authors: Robert A. Street et. al.; SPIE (2001), vol. 4320, pp. 1-12	
		"X-ray Detectors for Digital Radiography"; authors: M.J. Yaffe and J.A. Rowlands; Physical Medical Biology; pp. 1-39 - 1997	
		"Experimental Evaluation of a novel CdZnTe flat-panel X-ray Detector for digital radiography and fluoroscopy"; authors: Satoshi Tokuda, et al.; SPIE (2001), vol. 4320, pp. 140-147	
		"Amorphous Silican X-ray Image Sensor"; authors: J. Chabbal, et al.; SPIE (2001), vol. 2708, pp. 499-510	

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.